



# Satellite Dishes range In Building Solutions

2018 Edition



# CAHORS

## In building specialist

With over **25 years of experience** in the multimedia field, **CAHORS adapts** to each problem and proposes the solutions and equipment adapted to the needs of the **residential and tertiary markets**.

**All users, professionals or individuals**, can access to data they need at any time.





# Summary

Our SMC antennas p 4

## SINGLE SATELLITE

**NEW** Diameter 55 & 65 cm p 5

Diameter 70 cm p 6

Diameter 80 cm p 7

Diameter 100 cm p 8

**NEW** Diameter 120 & 150 cm p 9

## MULTI SATELLITE

Bisat antennas p 10

Big Bisat antennas p 12

## E/R ANTENNAS

Diameter 90 p 14

Diameter 120 p 15



Our sales department is at your disposal for any information. Our commercial documentation can be sent to you on request. You can also consult them in pdf. For more information, scan this code or go to [www.groupe-cahors.com](http://www.groupe-cahors.com)







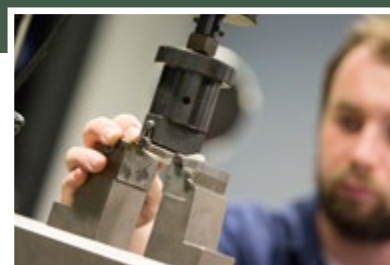
# SMC satellite dishes

## IN COMPOSITE REINFORCED WITH GLASS FIBRE

CAHORS has over 40 years' experience in compounding, production of prepreg SMC, hot compression molding, and innovative finish processes. SMC (Sheet Molding Compound) is a composite material of the GRP (Glass Reinforced Plastic) family. It's a polyester-matrix composite reinforced with glass fibre.



4500  
tonnes produced  
every year



## SMC antennas durable and robust

- **Do not deform in time:** no gain losses
- **Rigidity of the reflector:** easy pointing
- **Solar reduction system:** increase LNB life



### Made in France

Our products are developed & designed in our factory at Cahors city (46)



### Resistance to climatic conditions

UV, humidity, ozone, oxidation, pollution, corrosion. DRP material resists extrem temperature (-50°C to 150°C)



### Quality

To ensure you of our quality, all CAHORS SMC reflectors come with a 10 years anti corrosion warranty.

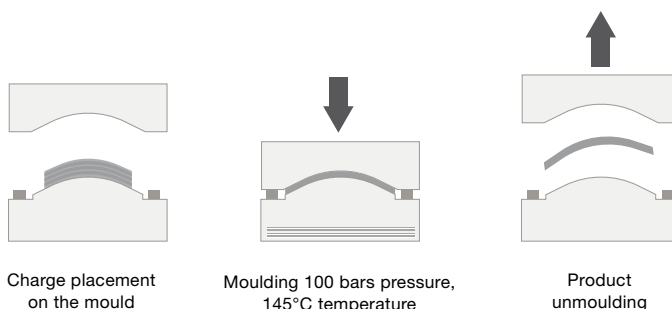


### Impact performance

Glass-fibre mechanical reinforcement limits cracks propagation. > 20 J

## SMC compression

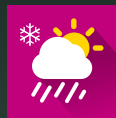
This cross-linking reaction reinforces the structure of the final material and gives the moulded product its **remarkable properties**. It will retain these whatever the environmental conditions, for a product **service life in excess of 40 years**.



# SMC 55 UNI

## SMC FIBRE ANTENNA

10 YEARS WARRANTY



COMPO  
Back mount

THERMO  
PLASTIQUE  
**COMPO**  
GLASS  
FIBER

| Technical Data     |               |
|--------------------|---------------|
| Height x Width     | 55 x 48 cm    |
| Gain at 12,625 GHz | 34,5 dB       |
| Mounting on tube   | ø 30 to 60 mm |
| Weight             | 4 kg          |

ANT SMC 55 UNI LNB Ref 0140863 x47

**NEW** ANT SMC 55 UNI G LNB Ref 0140001R13 x47

# SMC 65 UNI

## SMC FIBRE ANTENNA



| Technical Data     |               |
|--------------------|---------------|
| Height x Width     | 68 x 61 cm    |
| Gain at 12,625 GHz | 36 dB         |
| Mounting on tube   | ø 30 to 60 mm |
| Weight             | 6 kg          |

> SMC COMPO 65

COMPO Back mount

THERMO  
PLASTIQUE  
**COMPO**  
GLASS  
FIBER

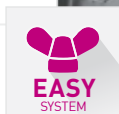
ANT SMC CP65 UNI LNB Ref 0140907 x35

ANT SMC CP65 UNI LNB Ref 0140908 x35

ANT SMC CP65 UNI LNB Ref 0140909 x35

> SMC METAL 65

Steel Az/El back  
mount



ANT SMC 65 METAL LNB Ref 0140299 x35

ANT SMC 65 METAL LNB Ref 0140796 x35

> SMC INOX 65

COMPO Back mount & stainless  
steel bracket & bolts

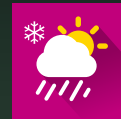


ANT SMC IX65 UNI LNB Ref 0140910 x35

ANT SMC IX65 UNI LNB Ref 0140911 x35

# SMC 70 UNI

## SMC FIBRE ANTENNA



THERMO  
PLASTIQUE  
**COMPO**  
GLASS  
FIBER

COMPO back mount



Available  
in 3 colors

RAL 9002 7012 8014

### Technical Data

|                    |               |
|--------------------|---------------|
| Height x Width     | 68 x 66 cm    |
| Gain at 12,625 GHz | 36,5 dB       |
| Mounting on tube   | ø 30 to 60 mm |
| Weight             | 6 kg          |

### > SMC INOX 70

**IX**  
INOX

COMPO Back mount & stainless steel bracket & bolts

ANT SMC IX 70 UNI LNB Ref 0140904 x24

ANC SMC IX 70 UNI LNB Ref 0140905 x24

### > SMC COMPO 70

**EASY**  
SYSTEM

COMPO Back mount

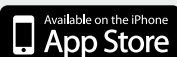
ANT SMC CP 70 UNI LNB Ref 0140901 x24

ANT SMC CP 70 UNI LNB Ref 0140902 x24

ANT SMC CP 70 UNI LNB Ref 0140903 x24



Download our **free** mobile apps  
**QuickSat** to align your CAHORS  
antenna !

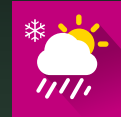


[www.groupe-cahors.com/fr-france/quicksat.html](http://www.groupe-cahors.com/fr-france/quicksat.html)



# SMC 80

## SMC FIBRE ANTENNA



Steel Az/El back mount

SATELLITE DISHES RANGE



Available in 3 colors

RAL 9002 7012 8014

### Technical Data

|                    |               |
|--------------------|---------------|
| Height x Width     | 81 x 75 cm    |
| Gain at 12,625 GHz | 38,25 dB      |
| Mounting on tube   | ø 50 to 60 mm |
| Weight             | 7 kg          |

### > SMC 80

|                |     |             |     |
|----------------|-----|-------------|-----|
| ANT SMC 80 UNI | LNB | Ref 0140264 | x22 |
| ANC SMC 80 UNI | LNB | Ref 0140797 | x22 |
| ANT SMC 80 UNI | LNB | Ref 0140498 | x22 |

### > SMC 80 WITHOUT LNB **NEW**

|            |             |     |
|------------|-------------|-----|
| ANT SMC 80 | Ref 0140551 | x22 |
| ANT SMC 80 | Ref 0140447 | x22 |

### > LNB HOLDERS

For SMC 80 antennas

### 2 SAT RECEPTION



Multi-standard support  
Ø 23/40mm  
Ref 0914052



6° Adapter  
Ref 0914238



Variable 6° support  
Ø 23/40mm LNBs  
Ref 0914319



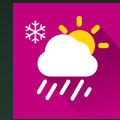
Fixed 6° support  
Ø 23/40mm LNBs  
Ref 0914237



LNBS Monobloc

# SMC 100

## SMC FIBRE ANTENNA



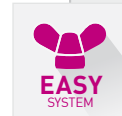
The SMC 100 antenna is the best balance between gain and size. Its high performance, durability and stability makes we specially recommend this antenna for SMATV applications.



Available in 3 colors

RAL 9002 7012 8014

Galvanized steel  
Back Mount  
Elevation > 40°



### > SMC 100\*

With galvanized steel  
Back Mount

|                  |             |     |
|------------------|-------------|-----|
| ANT SMC 100V2    | Ref 0140880 | x15 |
| ANT SMC 100V2 6° | Ref 0140883 | x15 |
| ANC SMC 100V2 G  | Ref 0140881 | x15 |
| ANT SMC 100V2 B  | Ref 0140882 | x15 |

\* without LNB

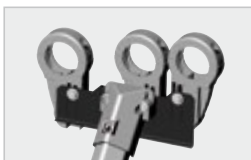
### > SUPPORTS 100



#### SUP AUSTRIA

Ref 0914520

Astra 19,2° E  
Eutelsat 16° E  
Hotbird 13° E



#### SUP HDTV

Ref 0914538

Astra 19,2° E  
Astra 23,5° E  
Hotbird 13° E

#### Technical Data

|                                   |                  |
|-----------------------------------|------------------|
| Height x Width                    | 102 x 92 cm      |
| Frequency range                   | 10,7 - 12,75 GHz |
| Gain at 12,625 GHz                | 39,7 dB          |
| Gain 6° at 12,750 GHz             | 37,7 dB          |
| G/T nominal (dB/°K) at 12,750 GHz | 19,8             |
| G/T 6° (dB/°K) at 12,750 GHz      | 17,8             |
| Noise temperature                 | < 35°K           |
| Beam width at 11,325 GHz          | 1,9°             |
| Arm                               | Aluminium        |
| Back mount                        | Steel            |
| Rapport F/D                       | 0,65             |
| Mounting on tube                  | Ø 50 to 60 mm    |
| Mounting mast                     | Ø 30 to 60 mm    |
| Weight                            | 9,5 kg           |



# SMC 120

## SMC FIBRE ANTENNA



### Technical Data

|                    |              |
|--------------------|--------------|
| Height x Width     | 127 x 123 cm |
| Gain at 12,625 GHz | 41,8 dB      |
| Mounting on tube   | Ø 60 à 80 mm |
| Weight             | 21 kg        |



**Kit SMC 120 + polar mount**  
Ref 0140854

**Polar mount**  
Ref 0140864



### > SMC 120\*

Steel Az/El back mount



**KIT 120 MS AZ/EL 60°** Ref 0140851 x6

**KIT 120 MS AZ/EL 60°** Ref 0140898 x6

\* without LNB

### > SUPPORTS 100



**SUP 19-28°**  
Ref 0914775R13  
Astra 19,2° E  
Astra 28,2° E

✓ SMC 100 & 120



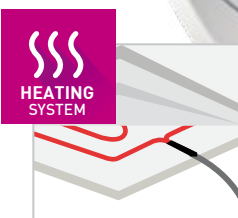
**SUP 6°**  
Ref 0914513  
Astra 19,2° E  
Hotbird 13° E

✓ SMC 100 & 120

# SMC 150

## SMC FIBRE ANTENNA

RAL 7047



Resistors molded in the reflector for heating version

Steel Az/El back mount



### Technical Data

|                                     |                   |
|-------------------------------------|-------------------|
| Height x Width                      | 161 x 151 cm      |
| Gain at 11,325 GHz                  | 43,2 dB           |
| Gain nominal à 12,750 GHz           | 39,7 dB           |
| Arm                                 | SMC               |
| Diameter LNB holder                 | 40 mm             |
| Back mount                          | Acier galva       |
| Frequency range                     | 10,7 - 12,75 GHz  |
| Offset                              | 20.1°             |
| Mounting on tube                    | ø 60 to 88 mm     |
| Input voltage (for heating version) | 320 W<br>AC 230 V |
| Weight                              | 18.5 kg           |
|                                     | heating : 21,5 kg |

**SMC 150\*** Ref 0141303 x1

**NEW**

**HEAT SMC 150\*** Ref 0141350R13 x1

\* without LNB



# SMC BISAT

## MULTISATELLITE ANTENNA



Fits perfectly the environment with 3 different colors

|                |             |     |
|----------------|-------------|-----|
| ANT BISAT G2 B | Ref 0140339 | x20 |
| ANT BISAT G2 G | Ref 0140468 | x20 |
| ANT BISAT G2 M | Ref 0140494 | x20 |



BISAT with reflector + arm + back mount  
**+ G2 holder, without LNB** for the **2 satellites**  
**reception : ASTRA 19,2° + HOTBIRD 13°**

| Technical Data           |                    |
|--------------------------|--------------------|
| Width x height           | 75 cm / 64 cm      |
| Frequency range          | 10,7 - 12,75 GHz   |
| Gain (dB) +/- 20°        | 37,5 dB            |
| -3dB beamwidth           | 2,3°               |
| G/T (12,5 GHz)           | 16 dBK             |
| Elevation                | 0° à 90°           |
| Mounting on tube         | ø 30 à 60 mm       |
| Weight                   | 6 kg - 8 kg packed |
| Packaging size L x l x H | 840 x 700 x 120 mm |

> G2 EXTENSION HOLDERS

| Holders            | G2 extension > G3A  | G2 extension > G3B  | G2 extension > G3C  |
|--------------------|---|---|---|
| Reference          | 0914460   | 0914540   | 0914539   |
| LNBS (no included) | 3   | 3   | 3   |
| Satellite          | <ul style="list-style-type: none"> <li>• Astra 19,2° E</li> <li>• Astra 28,2° E</li> <li>• Hotbird 13° E</li> </ul> | <ul style="list-style-type: none"> <li>• Astra 19,2° E</li> <li>• Astra 23,5° E</li> <li>• Hotbird 13° E</li> </ul> | <ul style="list-style-type: none"> <li>• Astra 19,2° E</li> <li>• Astra 23,5° E</li> <li>• Astra 28,2° E</li> </ul> |
| Pictures           |   |   |   |

> HEATING SYSTEMS



Despite of snow and ice

The heating system is developed to face with extreme climatic conditions and guaranties a constant reception quality despite snow and ice.

|         | HEAT ANT 100 V2 | HEAT ANT 120 | HEAT ANT BISAT | HEAT ANT BIG BISAT | THERMOSTAT SENSOR |
|---------|-----------------|--------------|----------------|--------------------|-------------------|
| Ref     | 0914493         | 0914504      | 0914533        | 0914650            | 0914541           |
| R (Ohm) | 114 - 132       | 100,5 - 111  | 218,5 - 253    | 131 - 145          | -                 |
| P (W)   | 440             | 500          | 230            | 400                | -                 |
| I (A)   | 1,91            | 2,17         | 1              | 1,7                | -                 |

Arm heating for satellite antenna

The heating system is made of 2 specific heating wires positioned in the arm profile, and activated by the temperature controller (ref. 0914541) on which is usually already connected a reflector heater.



**NEW**

LNB snow cap protection

To not lose your reception and protect your LNB source against the snow, the Snow cap is clipped on a standard LNB (Ø 40mm)



SNOW CAP  
Ref. 0914004R13

| Electrical properties | Arm heating BISAT | Arm heating BIG BISAT |
|-----------------------|-------------------|-----------------------|
| Reference             | 0914749R13        | 0914750R13            |
| Power W @ 10°C        | 2 x 8 watts       | 2 x 11.4 watts        |
| IP rating             | 65                | 65                    |
| Class                 | I                 | I                     |



# SMC BIG BISAT

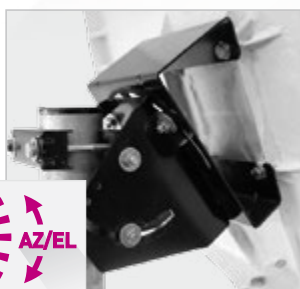
## MULTISATELLITE ANTENNA TO 2 AT 8 SATELLITES



- Compo multi-feed support
- Lightness and strength
- Easy mounting single screw / hinged
- Aluminium feed legs



Without LNB



- Azimut/elevation/tilt
- Compact and light
- Easy mounting
- Easy adjustment

**BIG BISAT 4xMS** Ref 0140955 x15

**BIG BISAT 4xMS** Ref 0140956 x15

**BIG BISAT 4xMS** Ref 0140957 x15

Ø23mm lnb support for 3° reception

### Technical Data

|                          |                                      |
|--------------------------|--------------------------------------|
| LNB holders              | <b>4 supports LNB Ø 40mm fournis</b> |
| Width x height           | 91 cm / 70 cm                        |
| Frequency range          | 10,7 – 12,75 GHz                     |
| Multi beam capability    | +/- 20° orbital (total 40°)          |
| Gain (dB) +/- 20°        | 36 dB                                |
| -3dB beamwidth           | 2,3°                                 |
| G/T (12,5 GHz)           | 16 dBK                               |
| Elevation                | 0°to 90°                             |
| Mounting on tube         | ø 40 to 60 mm                        |
| Weight                   | 9 kg - 11 kg emballée                |
| Packaging size L x l x H | 840 x 925 x 160 mm                   |



> BIGBISAT ACCESSORIES

For 3° reception, use LNB Slim feed + Ø23mm Inb support



Ø 40 mm



Ø 23 mm



LNB Single



LNB Twin

|               |             |    |
|---------------|-------------|----|
| SUP LNB ø40mm | Ref 0914597 | x1 |
| SUP LNB ø23mm | Ref 0914656 | x1 |

|                             |                |
|-----------------------------|----------------|
| LNB SLIM FEED ø 23mm SINGLE | Ref 0914831R13 |
| LNB SLIM FEED ø 23mm TWIN   | Ref 0914814R13 |

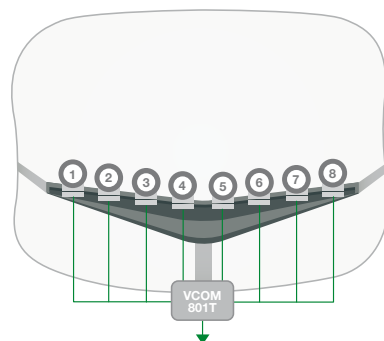
Switch 8 inputs



VCOM 801T Ref 0914788R13 x1



Switches up to 8 satellites via single cable with DiSeqC® command.



> ALIGNMENT SOFTWARE

Web version

<http://www.groupe-cahors.com>  
 > Services > Tools and Applications



Mounting & Alignment in 10' only

CAHORS's special ONLINE software will automatically calculate all the necessary installation parameters required to align the BIG BISAT to the requested satellites at exact geographical location.

Mobile version

<http://www.groupe-cahors.com>  
 > Services > Tools and Applications





# SMC 90 DO

## VSAT SMC 90CM ANTENNA



### Superior quality for Transmit / Receive applications:

The aluminium shaped arms ensure the perfect alignment of the Rx / Tx system with the reflector. A special attention was given in the masthead design to provide pointing accuracy and stability.



SMC 90 DO    Ref 0141026    x1

### Easy installation and fine adjustment:

The stiff Az/El masthead allows the fine adjustments of each parameter individually and insures the highest performances.

The polarization settings can be done either on the feed or on the rear mount.

The gregorian design gives the low cross polarization levels needed for transmit.

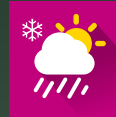
#### Technical datas

| Width x height                     | 99 x 90 cm                            |                     |
|------------------------------------|---------------------------------------|---------------------|
| Shape                              | Offset / Effective aperture Ø 90 cm   |                     |
| Material main reflector            | Glass fiber reinforced polyester      |                     |
| Mount pipe                         | Az/El/Polarization type<br>Ø 60-80 mm |                     |
| Feed interface                     | WR 75                                 |                     |
| Azimuth                            | 0 /360° with +/- 5° fine adjustment   |                     |
| Operational windspeed              | 100 Km/h with bursts up to 130Km/h    |                     |
| Temperature                        | -30°C ~ +60°C                         |                     |
| Atmosphere                         | coastal and industrial areas          |                     |
| Cross polarization                 | > 30 dB within the -1dB contour       |                     |
| Weight                             | < 30 kg                               |                     |
| RF Performance                     | Receive                               | Transmit            |
| Polarization                       | Linear                                | Linear Orthogonal   |
| Frequency band                     | 10,7 ~12,75 GHz                       | 14 - 14.5 GHz       |
| 3dB Beamwidth                      | 1.9° at 11.7GHz                       | 1.6° at 14.25GHz    |
| Gain                               | 38.5 dB at 11.7GHz                    | 40.3 dB at 14.25GHz |
| G/T (30° elevation)                | 16.5 dB/K at 11.7GHz                  |                     |
| Isolation Rx / Tx (13,75~14,5 GHz) | -                                     | 40 dB min           |
| Tx / Rx (10,75~12,75GHz)           | 75 dB min                             | -                   |
| VSWR                               | 1.3 : 1 max                           |                     |

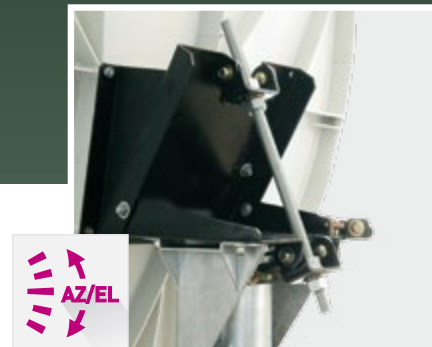
# SMC 120 DO

## VSAT SMC 120CM ANTENNA

10 YEARS WARRANTY



HD



SMC 120 DO Ref 0141134 x1

### Easy installation and fine adjustment:

The stiff Az/El/Xpol mount allows the fine adjustments of each parameter individually and insures the highest performances.

### The SMC Reflector provides the essential requirements for transmission to satellite:

- dimensional accuracy
- mechanical stability over time and temperature
- excellent performance at high frequencies

| Technical datas                  |                                    |                   |
|----------------------------------|------------------------------------|-------------------|
| Width x height                   | 127 x 123 cm                       |                   |
| Shape                            | offset / Effective aperture 120 cm |                   |
| Material main reflector          | Glass fiber reinforced polyester   |                   |
| Mount pipe                       | Az/El/Polarization type<br>Ø 76 mm |                   |
| Feed interface                   | WR 75                              |                   |
| Azimet                           | 0~360° with +/-5° fine tune        |                   |
| Operational windspeed            | 80 Km/h with bursts up to 130Km/h  |                   |
| Elevation range                  | 10~90° continuous fine tune        |                   |
| Temperature                      | -30°C ~ +60°C                      |                   |
| Atmosphere                       | coastal and industrial areas       |                   |
| Cross polarization               | > 30 dB within the -1dB contour    |                   |
| Weight                           | < 30 kg                            |                   |
| RF Performance                   | Receive                            | Transmit          |
| Polarization                     | Linear                             | Linear Orthogonal |
| Frequency band                   | 10,7 ~12,75 GHz                    | 14 ~14,5 GHz      |
| 3dB beamwidth                    | 1,3°                               | 1,1°              |
| Gain @ 12,5 GHz                  | 41,8 dBi                           | 42,5 dBi          |
| G/T (30° elevation) @ 12,5 GHz   | 21,6 dBK                           |                   |
| Isolation Rx/Tx (13,75~14,5 GHz) | 40 dB min                          |                   |
| Tx/Rx (10,75~12,75GHz)           | 75 dB min                          |                   |
| VSWR                             | 1,3 : 1 max                        |                   |



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